

2

Geometry

> 2.1 3D shapes

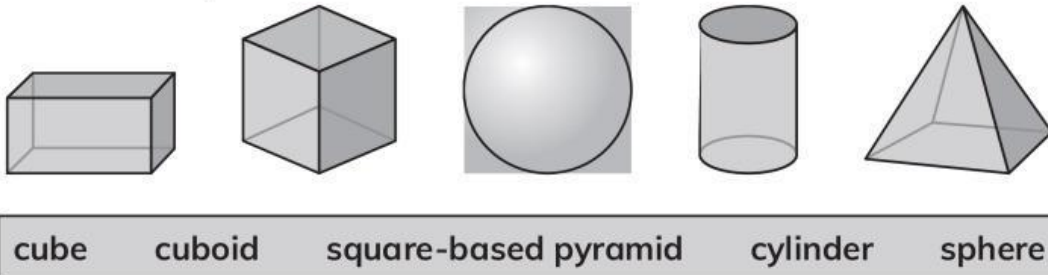
Exercise 2.1

Focus

curved surface edge
face vertex, vertices

Worked example 1

Match these shapes to their names.



I know a sphere because it's like a ball.

I know a cube because it has six faces that are the same.

A cylinder can roll.

There is a shape with a vertex at the top.

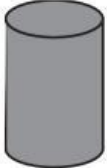
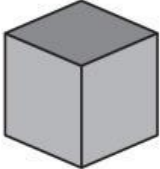
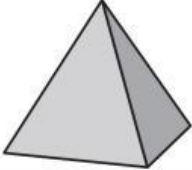
It has a square face. That is a square-based pyramid.

That means that the last one is a cuboid.

Name: _____

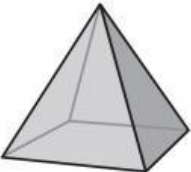
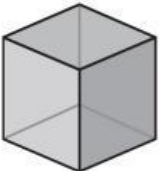
Description: _____

2 Draw a ring around the correct word to name each shape.

	sphere	cube	pyramid	cuboid
	cube	cylinder	sphere	cuboid
	sphere	cube	cuboid	cylinder
	cube	cuboid	pyramid	sphere
	cuboid	sphere	pyramid	cube



- 4 Complete the number of faces, edges, curved surfaces and vertices in this table.

Shape	Faces	Edges	Curved surfaces	Vertices
	0			0
				0
	5	8		
				8
		12		

Practice

- 5 Tony has a 3D shape.

One face of the shape is a square.

What could the shape be? _____

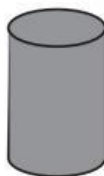


- 6 a What am I? Write the name under the picture.

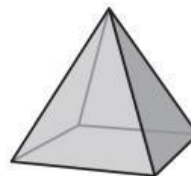
A



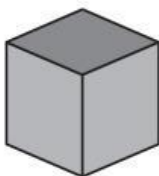
B



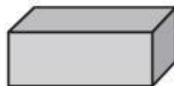
C



D



E



- b I have more than 2 faces.

None of my faces are circles.

I have 1 square face.

Some of my faces are triangles.

What am I?

I am a _____

- c I have more than 2 vertices.

I have no triangular faces.

All my faces are the same size.

I have no curved surfaces.

What am I?

I am a _____